re-new

IFWO

RAW SEQUENCE LISTING DATE: 10/15/2004
PATENT APPLICATION: **US/10/728,246** TIME: 11:10:51

Input Set : **N:\AMC\US10728246.raw**
Output Set: **N:\CRF4\10152004\J728246.raw**

<110> APPLICANT: ORSER, Cindy
GROSSET, Anne
DAVIDSON, Eugene A.
<120> TITLE OF INVENTION: DETECTION OF CONFORMATIONALLY ALTERED PROTEINS AND PRIONS
<130> FILE REFERENCE: A28-011
<140> CURRENT APPLICATION NUMBER: US/10/728,246
<141> CURRENT FILING DATE: 2003-12-04
<150> PRIOR APPLICATION NUMBER: 10/161,061
<151> PRIOR FILING DATE: 2002-05-30
<150> PRIOR APPLICATION NUMBER: 60/295,456
<151> PRIOR FILING DATE: 2001-05-31
<160> NUMBER OF SEQ ID NOS: 29

p.6

<210> SEQ ID NO: 1
<211> LENGTH: 33
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<220> FEATURE:
<400> SEQUENCE: 1
Val Val Ala Gly Ala Ala Ala Ala Gly Ala Met His Lys Met Asn
1 5 10 15
Thr Lys Pro Lys Met Lys His Met Ala Gly Ala Ala Ala Ala Gly
20 25 30
Ala Val Val
<210> SEQ ID NO: 2
<211> LENGTH: 19
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Synthetic Peptide
<400> SEQUENCE: 2
Lys Pro Lys Thr Asn Leu Lys His Val Ala Gly Ala Ala Ala Ala
1 5 10 15
Gly Ala Val Val
<210> SEQ ID NO: 3
<211> LENGTH: 14
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Synthetic Peptide
<400> SEQUENCE: 3
Leu Lys His Val Ala Gly Ala Ala Ala Ala Gly Ala Val Val
1 5 10
<210> SEQ ID NO: 4

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<211> LENGTH: 40
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Synthetic Peptide
<400> SEQUENCE: 4
Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His His Gln
1 5 10 15
Lys Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala
20 25 30
Ile Ile Gly Leu Met Val Gly Gly Val Val
35 40

<210> SEQ ID NO: 5
<211> LENGTH: 24
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Synthetic Peptide
<400> SEQUENCE: 5
Glu Val His His Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly
1 5 10 15
Ser Asn Lys Gly Ala Ile Ile Gly Leu
20

<210> SEQ ID NO: 6
<211> LENGTH: 24
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Synthetic Peptide
<400> SEQUENCE: 6
Glu Val Arg His Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly
1 5 10 15
Ser Asn Lys Gly Ala Ile Ile Gly Leu
20

<210> SEQ ID NO: 7
<211> LENGTH: 11
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Synthetic Peptide
<400> SEQUENCE: 7
Gly Ser Asn Lys Gly Ala Ile Ile Gly Leu Met
1 5 10

<210> SEQ ID NO: 8
<211> LENGTH: 28
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Synthetic Peptide

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```
101 <400> SEQUENCE: 8
102       Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
103         1               5                  10                  15
104       Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
105                       20                  25
107 <210> SEQ ID NO: 9
108 <211> LENGTH: 23
109 <212> TYPE: PRT
110 <213> ORGANISM: Artificial Sequence
111 <220> FEATURE:
112 <223> OTHER INFORMATION: Synthetic Peptide
113 <400> SEQUENCE: 9
114       Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
115         1               5                  10                  15
116       Gln Gln Gln Gln Gln Gln Gln Gln
117                       20
119 <210> SEQ ID NO: 10
120 <211> LENGTH: 19
121 <212> TYPE: PRT
122 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Synthetic Peptide
125 <400> SEQUENCE: 10
126       Lys Pro Lys Thr Asn Leu Lys His Val Ala Gly Ala Ala Ala Ala
127         1               5                  10                  15
128       Gly Ala Val Val
130 <210> SEQ ID NO: 11
131 <211> LENGTH: 38
132 <212> TYPE: PRT
133 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: Synthetic Peptide
136 <400> SEQUENCE: 11
137       Met Gly Ile Leu Lys Leu Gln Val Phe Leu Ile Val Leu Ser Val
138         1               5                  10                  15
139       Ala Leu Asn His Leu Lys Ala Thr Pro Ile Glu Ser His Gln Val
140                       20                  25                  30
141       Glu Lys Arg Lys Cys Asn Thr Ala
142                       35
144 <210> SEQ ID NO: 12
145 <211> LENGTH: 25
146 <212> TYPE: PRT
147 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: Synthetic Peptide
150 <400> SEQUENCE: 12
151       Met Ala Glu Ser His Leu Leu Gln Trp Leu Leu Leu Leu Leu Pro
152         1               5                  10                  15
153       Thr Leu Cys Gly Pro Gly Thr Ala Ala Trp
```

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Input Set : N:\AMC\US10728246.raw
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```
154                          20                  25
156 <210> SEQ ID NO: 13
157 <211> LENGTH: 253
158 <212> TYPE: PRT
159 <213> ORGANISM: Artificial Sequence
160 <220> FEATURE:
161 <223> OTHER INFORMATION: Synthetic Peptide
162 <400> SEQUENCE: 13
163       Met Ala Asn Leu Gly Cys Trp Met Leu Val Leu Phe Val Ala Thr
164         1               5                  10                  15
165       Trp Ser Asp Leu Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly
166                        20                  25                  30
167       Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly
168                        35                  40                  45
169       Gly Asn Arg Tyr Pro Pro Gly Gly Gly Gly Gly Trp Gly Gln Pro
170                        50                  55                  60
171       His Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln
172                        65                  70                  75
173       Pro His Gly Gly Gly Trp Gly Gln Pro His Gly Gly Gly Trp Gly
174                        80                  85                  90
175       Gly Gly Gly Gly Thr His Ser Gln Trp Asn Lys Pro Ser Lys Pro
176                        95                  100                 105
177       Lys Thr Asn Met Lys His Met Ala Gly Ala Ala Ala Ala Gly Ala
178                       110                 115                 120
179       Val Val Gly Gly Leu Gly Gly Tyr Met Leu Gly Ser Ala Met Ser
180                       125                 130                 135
181       Arg Pro Ile Ile His Phe Gly Ser Asp Tyr Glu Asp Arg Tyr Tyr
182                       140                 145                 150
183       Arg Glu Asn Met His Arg Tyr Pro Asn Gln Val Tyr Tyr Arg Pro
184                       155                 160                 165
185       Met Asp Glu Tyr Ser Asn Gln Asn Asn Phe Val His Asp Cys Val
186                       170                 175                 180
187       Asn Ile Thr Ile Lys Gln His Thr Val Thr Thr Thr Thr Lys Gly
188                       185                 190                 195
189       Glu Asn Phe Thr Glu Thr Asp Val Lys Met Met Glu Arg Val Val
190                       200                 205                 210
191       Glu Gln Met Cys Ile Thr Gln Tyr Glu Arg Glu Ser Gln Ala Tyr
192                       215                 220                 225
193       Tyr Gln Arg Gly Ser Ser Met Val Leu Phe Ser Ser Pro Pro Val
194                       230                 235                 240
195       Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
196                       245                 250
198 <210> SEQ ID NO: 14
199 <211> LENGTH: 254
200 <212> TYPE: PRT
201 <213> ORGANISM: murine
202 <220> FEATURE:
203 <400> SEQUENCE: 14
204       Met Ala Asn Leu Gly Tyr Trp Leu Leu Ala Leu Phe Val Thr Met
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PATENT APPLICATION: US/10/728,246 TIME: 11:10:51

Input Set : N:\AMC\US10728246.raw
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```
205          1               5                  10                  15
206       Trp Thr Asp Val Gly Leu Cys Lys Lys Arg Pro Lys Pro Gly Gly
207                          20                  25                  30
208       Trp Asn Thr Gly Gly Ser Arg Tyr Pro Gly Gln Gly Ser Pro Gly
209                          35                  40                  45
210       Gly Asn Arg Tyr Pro Pro Gln Gly Gly Thr Trp Gly Gln Pro His
211                          50                  55                  60
212       Gly Gly Gly Trp Gly Gln Pro His Gly Gly Ser Trp Gly Gln Pro
213                          65                  70                  75
214       His Gly Gly Ser Trp Gly Gln Pro His Gly Gly Gly Trp Gly Gln
215                          80                  85                  90
216       Gly Gly Gly Thr His Asn Gln Trp Asn Lys Pro Ser Lys Pro Lys
217                          95                 100                 105
218       Thr Asn Leu Lys His Val Ala Gly Ala Ala Ala Ala Gly Ala Val
219                         110                 115                 120
220       Val Gly Gly Leu Gly Gly Tyr Met Leu Gly Ser Ala Met Ser Arg
221                         125                 130                 135
222       Pro Met Ile His Phe Gly Asn Asp Trp Glu Asp Arg Tyr Tyr Arg
223                         140                 145                 150
224       Glu Asn Met Tyr Arg Tyr Pro Asn Gln Val Tyr Tyr Arg Pro Val
225                         155                 160                 165
226       Asp Gln Tyr Ser Asn Gln Asn Asn Phe Val His Asp Cys Val Asn
227                         170                 175                 180
228       Ile Thr Ile Lys Gln His Thr Val Thr Thr Thr Thr Lys Gly Glu
229                         185                 190                 195
230       Asn Phe Thr Glu Thr Asp Val Lys Met Met Glu Arg Val Val Glu
231                         200                 205                 210
232       Gln Met Cys Val Thr Gln Tyr Gln Lys Glu Ser Gln Ala Tyr Tyr
233                         215                 220                 225
234       Asp Gly Arg Arg Ser Ser Ser Thr Val Leu Phe Ser Ser Pro Pro
235                         230                 235                 240
236       Val Ile Leu Leu Ile Ser Phe Leu Ile Phe Leu Ile Val Gly
237                         245                 250
239 <210> SEQ ID NO: 15
240 <211> LENGTH: 782
241 <212> TYPE: PRT
242 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Synthetic Peptide
245 <400> SEQUENCE: 15
246       Met Ala Pro His Arg Pro Ala Pro Ala Leu Leu Cys Ala Leu Ser
247         1               5                  10                  15
248       Leu Ala Leu Cys Ala Leu Ser Leu Pro Val Arg Ala Ala Thr Ala
249                          20                  25                  30
250       Ser Arg Gly Ala Ser Gln Ala Gly Ala Pro Gln Gly Arg Val Pro
251                          35                  40                  45
252       Glu Ala Arg Pro Asn Ser Met Val Val Glu His Pro Glu Phe Leu
253                          50                  55                  60
254       Lys Ala Gly Lys Glu Pro Gly Leu Gln Ile Trp Arg Val Glu Lys
```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/15/2004
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Input Set : **N:\AMC\US10728246.raw**
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:28; Xaa Pos. 8,25

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 4

VERIFICATION SUMMARY DATE: 10/15/2004
PATENT APPLICATION: **US/10/728,246** TIME: 11:10:52

Input Set : **N:\AMC\US10728246.raw**
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L:576 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
M:341 Repeated in SeqNo=28